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OSTROLENK, FABER, GERB & SOFFEN, LLP

Attorneys at Law

1180 Avenue of the Americas
New York, New York 10036-8403

(212) 382-0700

Telex
23 6925

Facsimile
(212) 382-0888

Cable
Ostrofaber NewYork

JCS25 U.S. PTO
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Inventor : Motoshi TANAKA
Title : PHONE NUMBER TRANSMISSION BETWEEN TELEPHONE DEVICES
Assignee : NEC Corporation

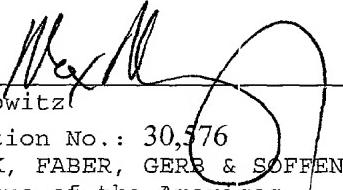
Enclosed herewith please find the following documents in the above-identified application for United States Letters Patent:

22 Pages of Specification including Abstract and Claims
14 Numbered Claims Calculated as 14 Claims for Fee Purposes
8 Sheets of Drawing Containing Figures 1 to 8. (Formal)
X Declaration and Power of Attorney
X Priority is Claimed under 35 U.S.C. §119:
Convention Date October 6, 1999 for Japan Appln. S.N. 285631/1999
Certified Priority Application
Verified Statement Claiming Small Entity Status under 37 C.F.R. §1.27.
X Assignment
X Return-Addressed Post Card
OGFS Check No. 1544, which includes the fee of \$750.00, calculated as follows:
Basic Filing Fee: \$ 710.00
Additional Filing Fees:
 Total Number of Claims in Excess of 20, times \$18:
 Number of Independent Claims in Excess of 3, times \$80: . . .
 One or More Multiple Dependent Claims: Total \$270.
Total Filing Fees or 710.00
Total Filing Fee Reduced 50% for Small Entity:
Assignment Recording Fee: \$40 40.00
TOTAL Filing Fee and Assignment Recording Fee: \$ 750.00

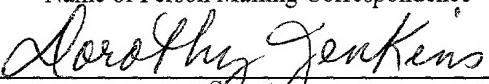
In the event the actual fee is greater than the payment submitted or is inadvertently not enclosed, or if any additional fee during the prosecution of this case is not paid, the Patent and Trademark Office is authorized to charge the underpayment to Deposit Account No. 15-0700.

EXPRESS MAIL CERTIFICATE

Respectfully submitted,


Max Moskowitz
Registration No.: 30,576
OSTROLENK, FABER, GERB & SOFFEN, LLP
1180 Avenue of the Americas
New York, New York 10036-8403
Telephone: (212) 382-0700

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October 5, 2000

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PHONE NUMBER TRANSMISSION BETWEEN TELEPHONE DEVICES**BACKGROUND OF THE INVENTION****1. Field of the invention**

The present invention generally relates to a telephone device, and in particular to a technique of data communication between telephone devices.

2. Description of the Related Art

There has been disclosed a multi-function telephone device allowing a desired phone number to be called up to a display screen even in conversation with the other party in Japanese Patent Application Unexamined Publication No. 59-228454. In phone conversation, it is of frequent occurrence that one party asks the other about the phone number of a third party. In such a case, it is very convenient to call up a desired phone number from a phone directory memory while maintaining the telephone line.

On the other hand, a telephone device allowing a phone number to be input by the user even in conversation with the other party has been disclosed in Japanese Utility-model Application Unexamined Publication No. 5-91057. This telephone device further allows a calling operation using a phone number.

registered in a phone directory memory. Therefore, after registering the phone number of a third party heard from the other party, the user can easily make a call at the phone number of the third party by calling up it from the phone directory memory.

5 In the case of the above-described conventional telephones, however, the user is likely to input erroneous phone numbers in the phone directory memory, resulting in frequently dialing a wrong number.

SUMMARY OF THE INVENTION

10 An object of the present invention is to provide a telephone apparatus and a data communication method that can easily transfer a correct phone number from one party to the other party in communication with the other party.

15 Another object of the present invention is to provide a telephone apparatus that can easily register a correct phone number in a memory and make a call at the correct phone number.

According to the present invention, a telephone apparatus includes: a transceiver; a display device; an input device for inputting data and desired instructions; a memory for storing received data; and a control device controlling such that, when 20 a telephone call is in progress through an established connection to another party and a predetermined kind of distinguishable data

is received from the other party through the established connection, the received distinguishable data is stored into the memory so as to allow it to be reused.

The controller may further control such that, when the 5 telephone call is in progress through the established connection to the other party, the predetermined kind of distinguishable data is transmitted to the other party through the established connection depending on an instruction inputted through the input device.

10 A telephone apparatus includes: a transceiver; a display device; an input device for inputting phone number data and desired instructions; a memory for storing received data; and a control device controlling such that, in communication with another party through an established connection, when receiving 15 phone number data from the other party through the established connection, the received phone number data is automatically stored into the memory and is displayed on the display device.

The received phone number data stored in the memory may be used to make a call depending on an instruction inputted through 20 the input device.

The controller may further control such that, when the telephone call is in progress through the established connection to the other party, desired phone number data is transmitted to the other party through the established connection depending on 25 an instruction inputted through the input device.

The desired phone number data may be produced through the input device.

The telephone apparatus may further include a phone directory memory for retrievably storing a plurality of phone numbers. The desired phone number data may be retrieved from the phone directory memory depending on an instruction inputted through the input device. The received phone number data stored in the memory may be transferred to the phone directory memory depending on an instruction inputted through the input device.

10 The telephone apparatus may further include a speech recognizer for recognizing input voice data to produce character data. The desired phone number data may be produced by the speech recognizer receiving voice data corresponding to digits of the desired phone number through a microphone of the telephone
15 apparatus.

According to another aspect of the present invention, a method for transferring a phone number from a first telephone to a second telephone, which are in communication through a connection, includes the steps of: the first telephone produces
20 transmission data including a desired phone number to be transmitted, and transmits the transmission data to the second telephone through the connection; and the second telephone receives the desired phone number included in the transmission data from the first telephone through the connection, displays
25 the desired phone number received, and stores the desired phone

number received into a memory.

As described above, a desired phone number can be transmitted to the other party through an established connection now used for telephone conversation, and the other party 5 automatically receives and stores the desired phone number.

Accordingly, a desired phone number can be transferred from one party to the other party without human errors.

Further, at a receiving side, the correct phone number can be easily registered in a memory or a phone directory memory so 10 as to make a call at the phone number.

Furthermore, a desired phone number can be entered by using a speech recognizer for voice input or a phone directory memory, resulting in more effectively avoiding human errors.

BRIEF DESCRIPTION OF THE DRAWINGS

15 Fig. 1 is a block diagram showing a radio mobile telephone according to a first embodiment of the present invention;

Fig. 2 is a flow chart showing a phone number transmission operation in the first embodiment;

20 Fig. 3 is a schematic diagram showing a sequence of views displayed according to the phone number transmission operation

of Fig. 2;

Fig. 4 is a flow chart showing a phone number reception operation in the first embodiment;

Fig. 5 is a schematic diagram showing a sequence of views displayed according to the phone number reception operation of Fig. 4;

Fig. 6 is a block diagram showing a radio mobile telephone according to a second embodiment of the present invention;

Fig. 7 is a flow chart showing a phone number transmission operation in the second embodiment; and

Fig. 8 is a diagram showing a data format of data including a phone number to be transmitted.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

FIRST EMBODIMENT

Referring to Fig. 1, there is shown a mobile telephone 100 in accordance with a first embodiment of the present invention. The mobile telephone is composed mainly of a human-machine

interface 110, a memory 120, a transmitter/receiver section 130, and a control section 140.

The human-machine interface 110 is formed by a combination of a microphone 111 as telephone transmitter, a speaker 112 as telephone receiver, a keypad 113, and a display 114 such as a liquid-crystal display (LCD). A voice signal inputted through the microphone 111 is processed by an audio circuit 115 and enters the control section 140. The keypad 113 is used for the user to input data such as a destination phone number and various instructions such as transmission of a phone number desired by the other party, registration of a new phone number, retrieval of a registered telephone number and the likes. Here, the keypad 113 includes a so-called command navigation button. Necessary information is displayed on the display 114 under control of the control section 140.

The memory 120 includes a phone directory memory 121 and a received data memory 122. The phone directory memory 121 retrievably stores a plurality of entries each including a name, a phone number, and other related information. The received data memory 122 stores received data such as a phone number received from the other party. The received data memory 122 preferably has a capacity for the order of 10 to 20 phone numbers.

The transmitter/receiver section 130 includes an antenna 131, a radio system 132, and a modulator/demodulator (MODEM) 133. The radio system 132 transmits and receives a radio signal to

and from a radio base station (not shown) through the antenna 131. The MODEM 133 performs modulation of transmission data input from the control section 140 to output a transmission signal to the radio system 132 and performs demodulation of a received 5 signal input from the radio system to output received data to the control section 140.

The control section 140 includes a program-controlled processor such as a central processing unit (CPU). A control program for the mobile telephone 100 is stored in a read-only 10 memory (not shown) and runs on the processor to control all operations of the mobile telephone including a calling control and a phone number transmission/reception control as described later.

Transmission control of phone number

15 A phone number transmission control of a mobile telephone 100 according to the first embodiment will be described referring to Figs. 2 and 3.

As shown in Fig. 2, it is assumed that a telephone call 20 is in progress through a connection established between two parties each having the mobile telephone 100 having the phone number transmission/reception function, and further that, at the request of the other party, one party transmits the phone number of a third party to the other party through the established connection. When a call is in progress, an in-communication 25 indicating view D301 as shown in Fig. 3 is displayed on the display

114.

Referring to Fig. 2, the control section 140 determines whether the keypad 113 is operated (step S201). When the keypad 113 is operated (YES at step S201), the control section 140 5 determines whether the key operation is a request of searching the phone directory memory 121 or a phone number input by the user (step S202).

If the key operation is a request of searching the phone directory memory 121 (YES at step S202), the control section 140 10 starts searching the phone directory memory 121 for an input key word such as a name and outputs search screen data to the display 114 to notify the user that searching is now performed (step S203).

When a match is found in the phone director memory 121, the control section 140 reads out the found phone number from 15 the phone directory memory 121 and outputs it to the display 114 (step S204). In this way, the phone number is displayed together with the corresponding name "A" and other related information on the display 114 as shown in D302 of Fig. 3.

On the other hand, when the key operation is a phone number 20 input by the user (NO at step S202) or when the desired phone number has never been registered in the phone directory memory 121, the control section 140 outputs the input phone number to the display 114 (step S205). In this way, the phone number input by the user is displayed on the display 114 as shown in D303 of 25 Fig. 3.

In such a state that the phone number is displayed on the display 114, when a menu key of the keypad 113 is depressed (YES at step S206), the control section 140 outputs a menu view to the display 114 (step S207) and thereby a menu is displayed on the display 114 (D304 of Fig. 3). Here, the menu has two menu items: Registration in phone directory memory; and Transmission.

- When the user selects the registration in phone directory memory (NO at step S208), the control section 140 starts a predetermined registration operation of the input phone number.
- 10 When the user shifts the highlighted portion to the transmission and enters the transmission as shown in D305 of Fig. 3 (YES at step S208), the control section 140 outputs a transmission check view to the display 114 (step S210) to inquire whether the displayed phone number is really transmitted to the other party
- 15 (D306 of Fig. 3).

- If the user selects "YES" in the transmission check view, then the control section 140 outputs transmission data composed of a predetermined identifier code followed by the phone number to the transmitter/receiver section 130 and thereby the transmission data including the phone number is transmitted to the mobile telephone 100 of the other party. The predetermined identifier code indicates that the following data is the phone number (see Fig. 8). Further, the control section 140 outputs a transmission view to the display 114 (step S212) to display
- 20 "data transmitting" on the display 114 (D307 of Fig. 3).
- 25

When the transmission of the phone number has been successfully completed (YES at step S213), the control section 140 outputs a transmission completion view to the display 114 (step S214) to display "Transmission End" on the display 114 (D308 of Fig. 3). On the other hand, when the transmission of the phone number fails (NO at step S213), the control section 140 outputs a transmission error view to the display 114 (step S215) to display "Transmission Error" on the display 114 (D309 of Fig. 3). Thereafter, the control goes back to the in-communication state 10 where the call is in progress between the parties (D301 of Fig. 3).

Reception control of phone number

A phone number reception control of a mobile telephone 100 according to the first embodiment will be described referring 15 to Figs. 4 and 5.

As shown in Fig. 4, it is assumed that a telephone call is in progress between two parties each having the mobile telephone 100 and further that one party receives the transmission data composed of a predetermined identifier code 20 followed by the phone number from the other party. When a call is in progress, an in-communication indicating view D301 is displayed on the display 114 as shown in Fig. 3.

Referring to Fig. 4, when the control section 140 of the mobile terminal 100 detects the predetermined identifier code 25 from the transmission data received from the other party in

communication as shown in D501 of Fig. 5 (step S401), the control section 140 outputs a data reception screen to the display 114 (step S402). When the phone number data following the predetermined identifier code has been received, the control section 140 displays "Data received" on the display 114 (D502 of Fig. 5), stores the received phone number to the received data memory 122 (step S403), and outputs the received phone number data to the display 114 (step S404) to display the phone number on display 114 (D503 of Fig. 5).

10 Thereafter, the control section 140 outputs a registration check view to the display 114 to display "Register in phone directory?" on the display 114 (D504 of Fig. 5) and prompts the user to enter (step S405).

15 When the user selects the registration of the received phone number (YES at step S405), the control section 140 stores the received phone number to the phone directory memory 121 (step S406) and then returns to the in-communication state (step S407). When the registration has been completed, "Registered" is displayed on the display 114 (D505 of Fig. 5) and, when having 20 returned to the in-communication state, the view of the display 114 is changed into "Call in progress" (D501 of Fig. 5).

25 When the user does not select the registration of the received phone number (NO at step S405), the received phone number is left as it is in the received data memory 122. In this case, the user can call up the phone number from the received data memory

122 by operating the keypad 113 so that the phone number is displayed on the display 114. Then, the user can make a call at the phone number.

After registering the phone number received from the other party in the phone directory memory 121, the user can also call up the phone number from the phone directory memory 121 and then make a call at the number by operating the keypad 113.

SECOND EMBODIMENT

Referring to Fig. 6, there is shown a mobile telephone 100A in accordance with a second embodiment of the present invention. The mobile telephone 100A has the almost same circuit configuration as the first embodiment except for a speech recognizer 610. Therefore, circuit blocks similar to those described with reference to Fig. 1 are denoted by the same reference numerals and the details thereof are omitted.

The speech recognizer 610 recognized a voice signal inputted from the audio circuit 115 to produce character data corresponding to the input voice information (here, digits of a phone number to be transmitted). Accordingly, a desired phone number can be entered by voice input without operating the keypad 113. The phone number transmission control will be described in detail referring to Fig. 7.

As shown in Fig. 7, it is assumed that a telephone call is in progress between two parties each having the mobile telephone 100A having the phone number transmission/reception

function and further that, at the request of the other party, one party transmits the phone number of a third party to the other party.

The control section 140 determines whether voice input occurs (step S701). When voice input occurs (YES at step S701), the control section 140 outputs voice input view data to the display 114 (step S702) and then outputs the recognized phone number data received from the speech recognizer 610 to the display 114 (step S703). In this way, the phone number input by the user 10 is displayed on the display 114 as shown in D303 of Fig. 3.

Thereafter, when a menu key of the keypad 113 is depressed (YES at step S704), the control section 140 outputs a menu view to the display 114 (step S705). When the user selects the registration in phone directory memory (NO at step S706), the 15 control section 140 starts a predetermined registration operation of the input phone number. When the user shifts the highlighted portion to the transmission and enters the transmission (YES at step S706), the control section 140 outputs a transmission check view to the display 114 (step S707) to inquire 20 whether the displayed phone number is really transmitted to the other party.

If the user selects "YES" in the transmission check view (YES at step S708), then the control section 140 outputs transmission data composed of a predetermined identifier code 25 followed by the phone number to the transmitter/receiver section

130 and thereby the transmission data including the phone number
is transmitted to the mobile telephone 100 of the other party
(step S709). Further, the control section 140 outputs a
transmission view to the display 114 to display "data-
5 transmitting" on the display 114.

When the transmission of the phone number has been
successfully completed (YES at step S710), the control section
140 outputs a transmission completion view to the display 114
(step S711). On the other hand, when the transmission of the
10 phone number fails (NO at step S710), the control section 140
outputs a transmission error view to the display 114 (step S712).
Thereafter, the control goes back to the in-communication state
where the call is in progress between the parties.

As shown in Fig. 8, data to be transmitted during
15 conversation has a predetermined format such that a predetermined
identifier code field 801 followed by a phone number data field
802. In the embodiments, the identifier code field 801 and the
phone number data field 802 have predetermined bit lengths,
respectively. In other words, when detecting the predetermined
20 identifier code from received data, the control section 140 can
read a predetermined number of bits following the predetermined
identifier code as phone number data to discriminate the phone
number data from other data.

The predetermined identifier code may be added to the phone
25 number data when the user enters the transmission (YES at steps

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S208 of Fig. 2 and S706 of Fig. 7).

CLAIMS:

1. A telephone apparatus comprising:
 - a transceiver;
 - a display device;
 - an input device for inputting data and desired instructions;
 - a memory for storing received data; and
 - a control device controlling such that, when a telephone call is in progress through an established connection to another party and a predetermined kind of distinguishable data is received from the other party through the established connection, the received distinguishable data is stored into the memory so as to allow it to be reused.
2. The telephone apparatus according to claim 1, wherein the controller further controls such that, when the telephone call is in progress through the established connection to the other party, the predetermined kind of distinguishable data is transmitted to the other party through the established connection depending on an instruction inputted through the input device.
3. A telephone apparatus comprising:

a transceiver;
a display device;
an input device for inputting phone number data and
desired instructions;

5 a memory for storing received data; and
 a control device controlling such that, in
communication with another party through an established
connection, when receiving phone number data from the other party
through the established connection, the received phone number
10 data is automatically stored into the memory and is displayed
on the display device.

4. The telephone apparatus according to claim 3,
wherinc the received phone number data stored in the memory is
used to make a call depending on an instruction inputted through
15 the input device.

5. The telephone apparatus according to claim 3,
wherinc the controller further controls such that, when the
telephone call is in progress through the established connection
to the other party, desired phone number data is transmitted to
20 the other party through the established connection depending on
an instruction inputted through the input device.

6. The telephone apparatus according to claim 5,

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wherein the desired phone number data is produced through the input device.

7. The telephone apparatus according to claim 5,
further comprising:

5 a phone directory memory for retrievably storing a plurality of phone numbers,

wherein the desired phone number data is retrieved from the phone directory memory depending on an instruction inputted through the input device.

10 8. The telephone apparatus according to claim 7,
wherein the received phone number data stored in the memory is transferred to the phone directory memory depending on an instruction inputted through the input device.

15 9. The telephone apparatus according to claim 5,
further comprising:

a speech recognizer for recognizing input voice data to produce character data,

wherein the desired phone number data is produced by the speech recognizer receiving voice data corresponding to 20 digits of the desired phone number through a microphone of the telephone apparatus.

10. A method for transferring a phone number from a first telephone to a second telephone, which are in communication through a connection, comprising the steps of:

at the first telephone,

5 a) producing transmission data including a desired phone number to be transmitted;

 b) transmitting the transmission data to the second telephone through the connection;

 at the second telephone,

10 c) receiving the desired phone number included in the transmission data from the first telephone through the connection;

 d) displaying the desired phone number received; and
 e) storing the desired phone number received into

15 a memory.

11. The method according to claim 10, further comprising the step of:

 f) making a call at the desired phone number stored in the memory depending on a user's instruction.

20 12. The method according to claim 10, wherein in the step (a), the desired phone number data is produced through the input device.

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13. The method according to claim 10, wherein in the step
(a), the desired phone number data is retrieved from a phone
directory memory depending on a user's instruction.

14. The method according to claim 10, wherein in the step
5 (a), the desired phone number data is produced by speech
recognizing voice data corresponding to digits of the desired
phone number.

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ABSTRACT OF THE DISCLOSURE

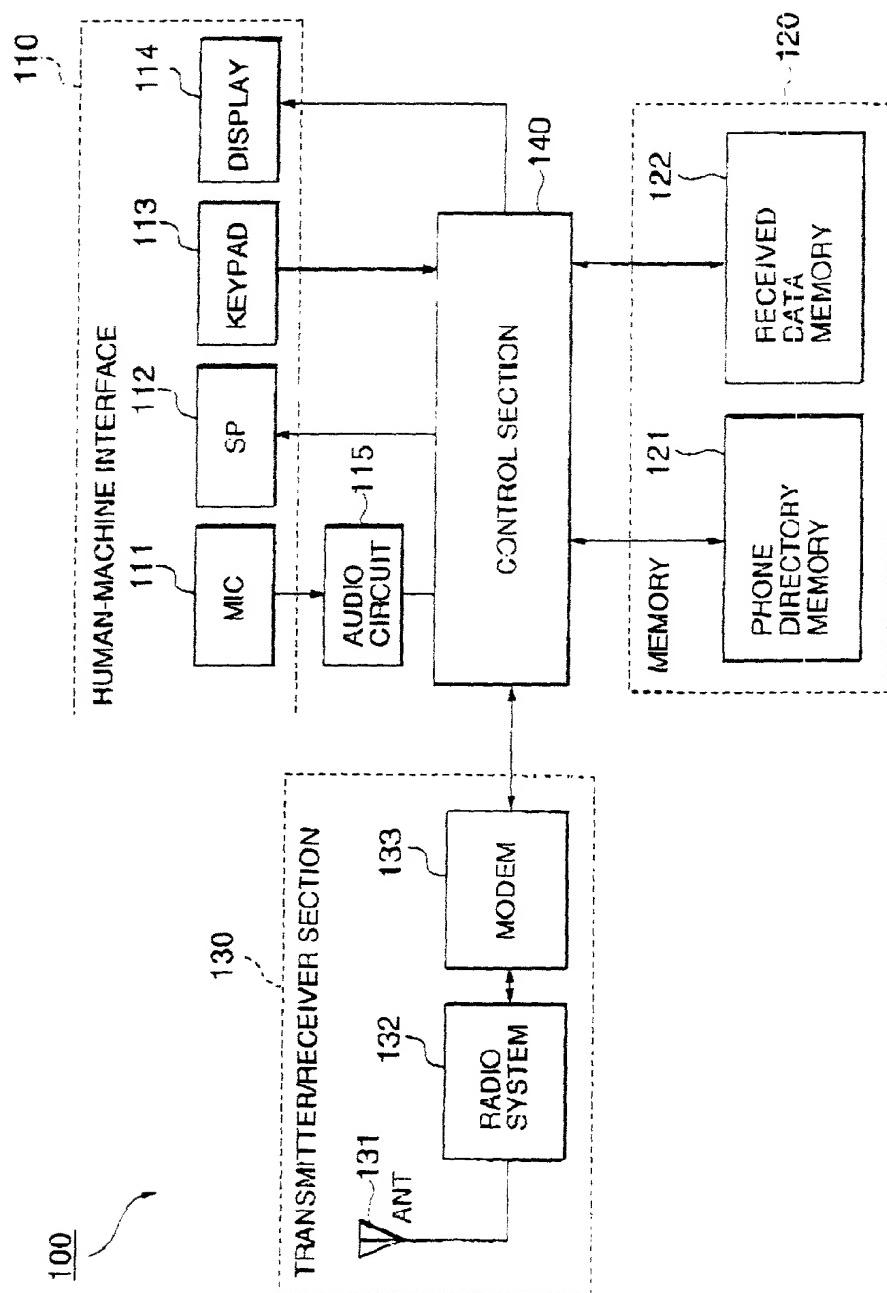
A telephone apparatus allowing easy and reliable phone number transfer to the other party through an established connection now used for telephone conversation is disclosed. A desired phone number can be automatically transmitted to the other party, and the other party automatically receives and stores the desired phone number without human errors. At a receiving side, the correct phone number can be easily registered in a memory or a phone directory memory so as to make a call at the phone number.

With the new *CCP* there will be no more need for *CCPA*.

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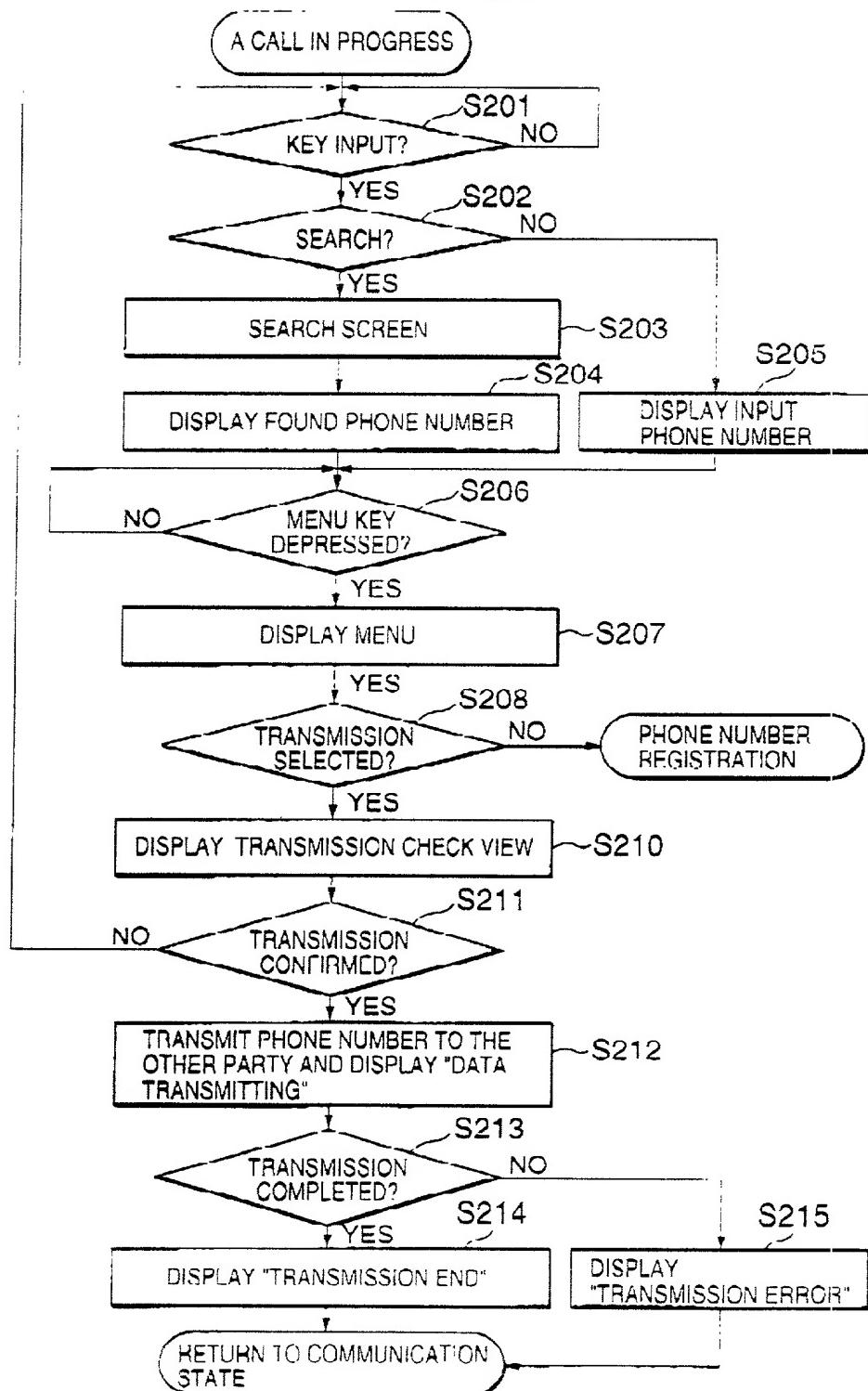
FIG. 1



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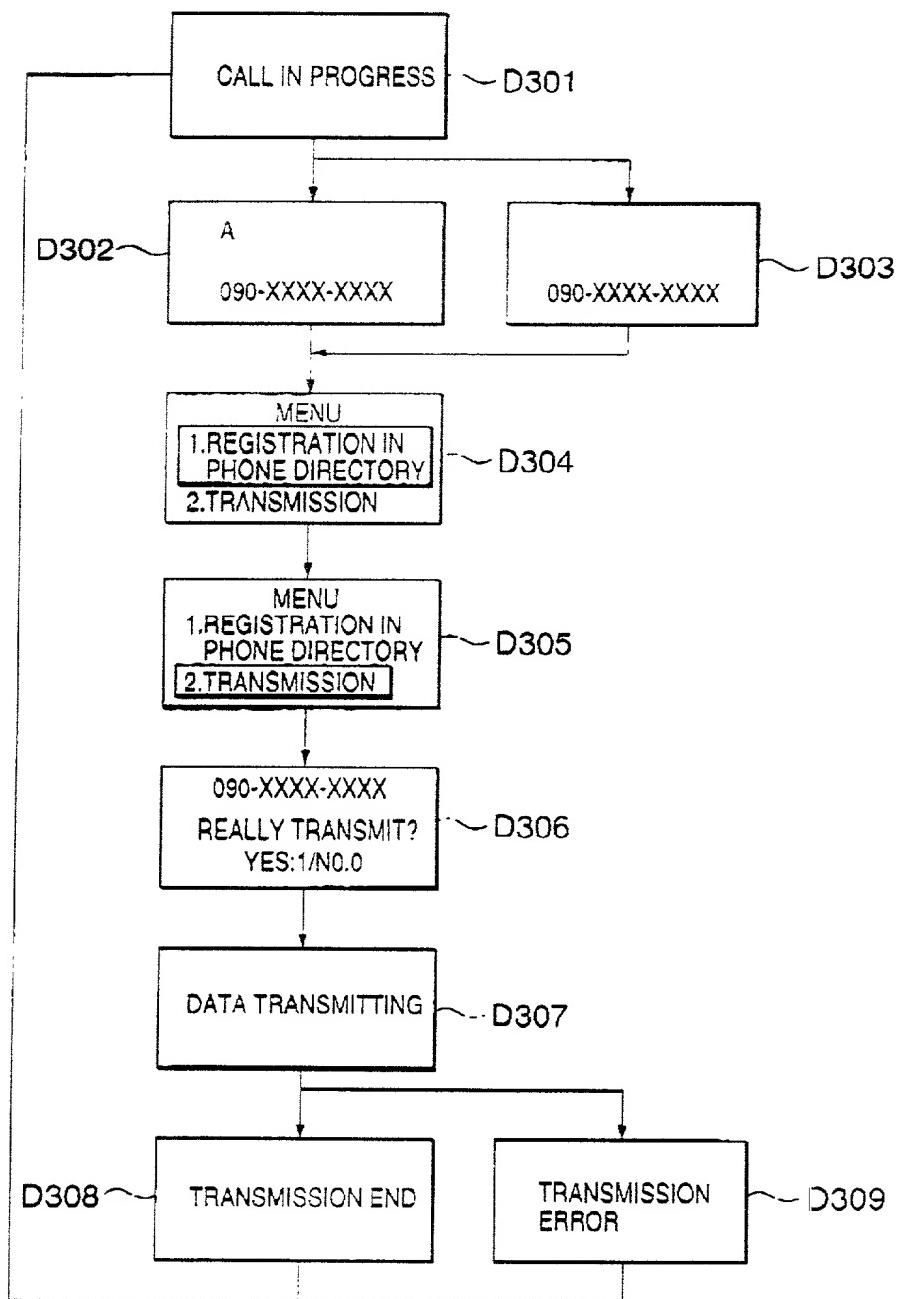
FIG.2



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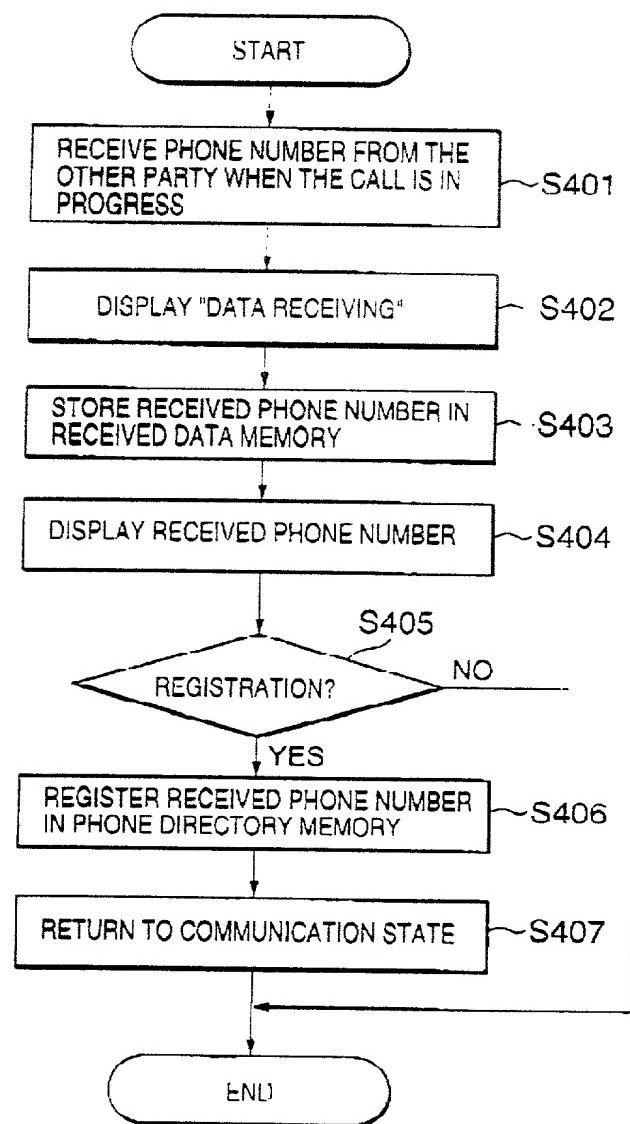
FIG.3



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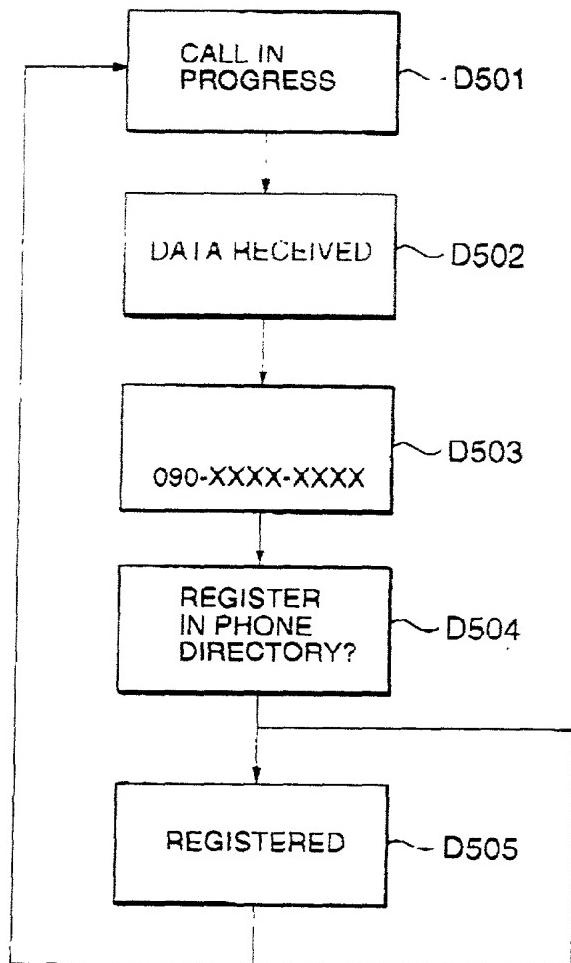
FIG.4



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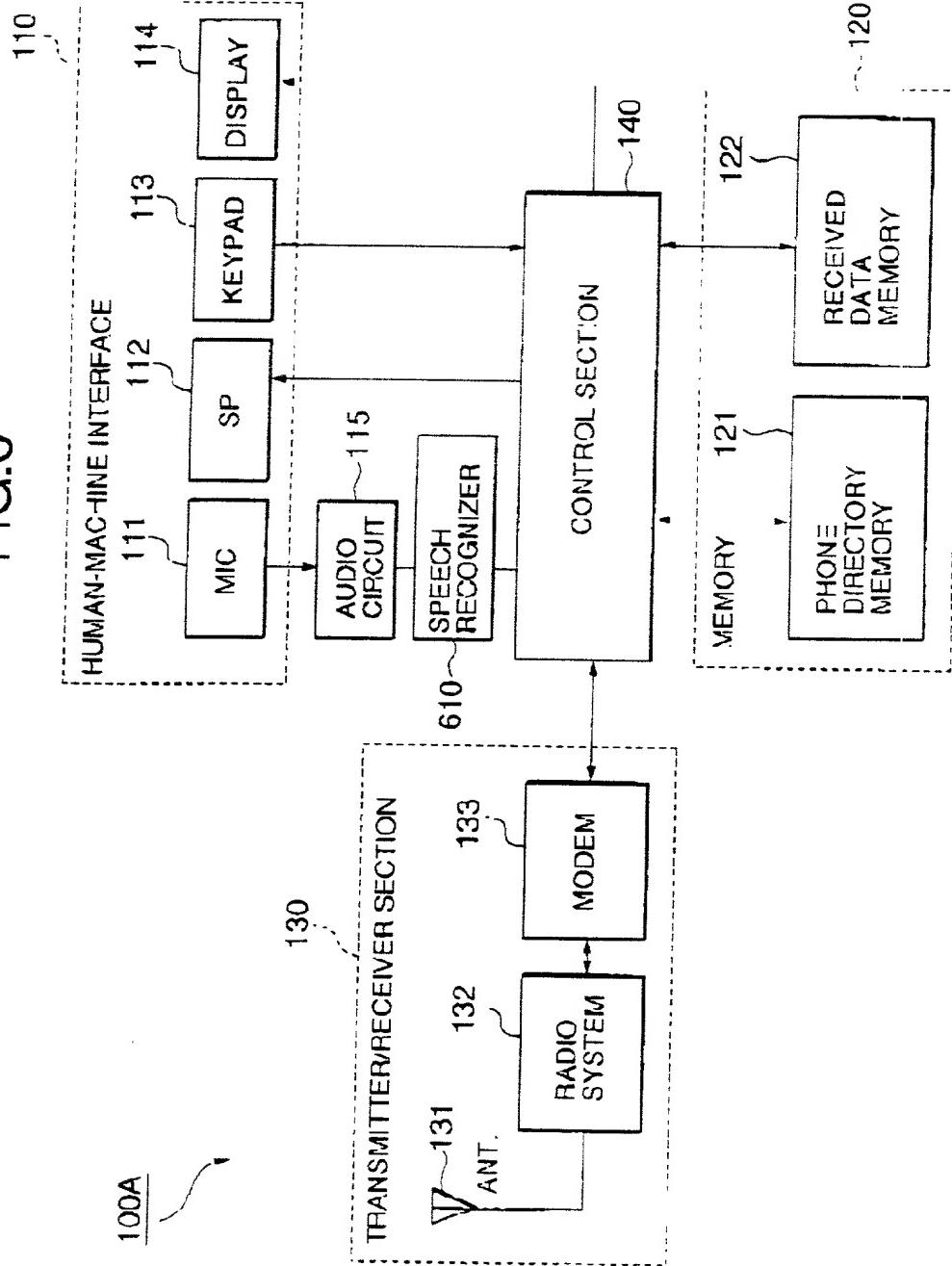
FIG.5



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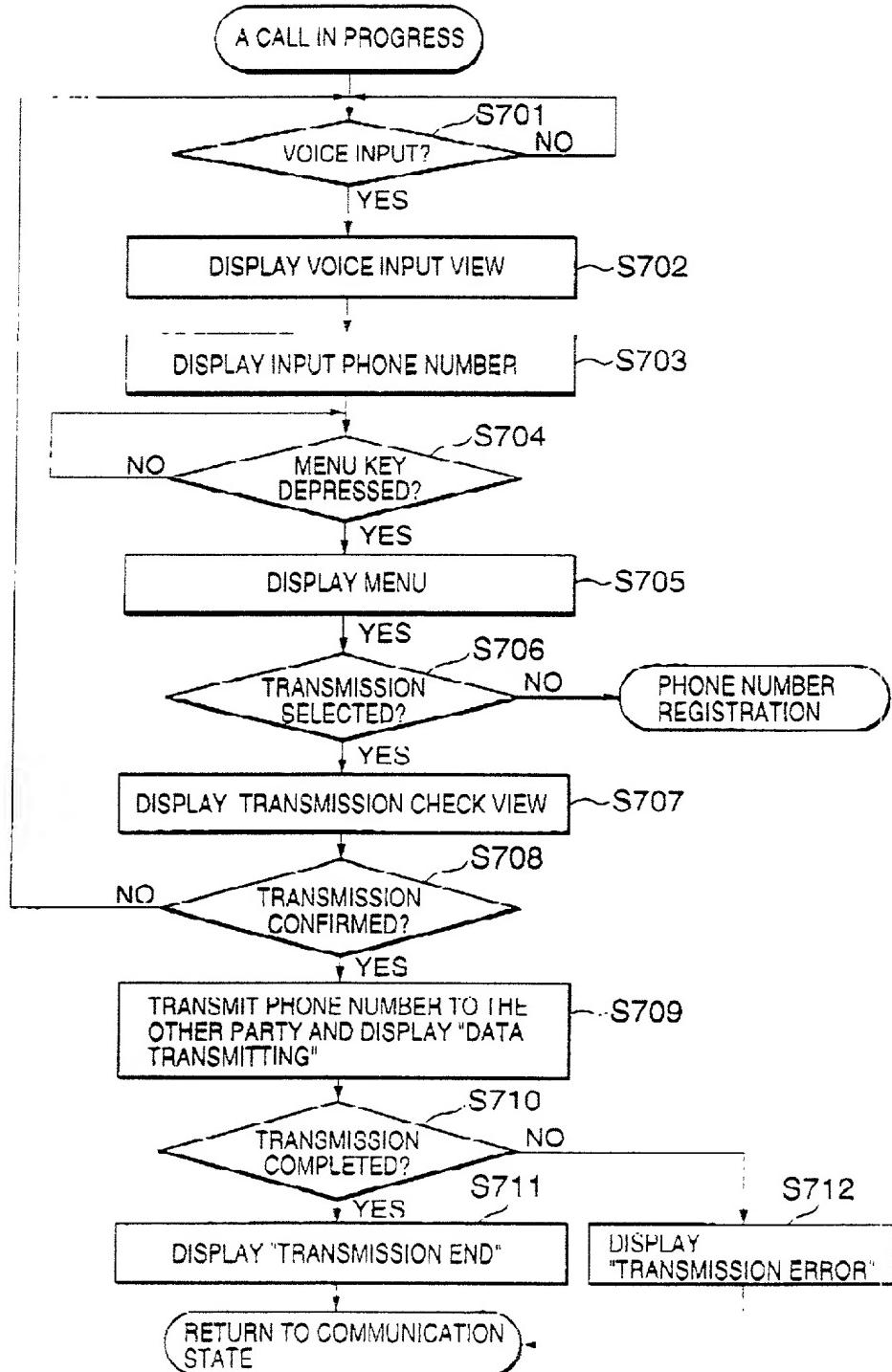
FIG.6



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FIG.7



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FIG.8

DATA TO BE TRANSMITTED

IDENTIFIER	PHONE NUMBER
801	802

D E S C R I P T I O N

UNITED STATES OF AMERICA COMBINED DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION		OFGS FILE NO P 2291-90
<i>As a below named inventor, I hereby declare that: my residence, post office address and citizenship are as stated below next to my name; that I verily believe that I am the original, first and sole inventor (if only one name is listed below) or a joint inventor (if plural inventors are named) of the subject matter which is claimed and for which a patent is sought on the invention entitled:</i> PHONE NUMBER TRANSMISSION BETWEEN TELEPHONE DEVICES		
<i>the specification of which is attached hereto, unless the following box is checked:</i>		
<input type="checkbox"/> was filed on _____ as United States patent Application Number or PCT International patent application number _____ and was amended on _____ (if any).		
<i>I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.</i>		
<i>I acknowledge the duty to disclose all information known to be material to patentability in accordance with Title 17, Code of Federal Regulations, §1.56</i>		
<i>I hereby claim priority benefits under Title 35, United States Code §119 of any foreign application(s) for patent or inventor's certificate or United States provisional application(s) listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:</i>		
<i>Prior Foreign or Provisional Application(s)</i>		
COUNTRY	APPLICATION NUMBER	DATE OF FILING (day, month, year)
Japan	285631/1999	6, 10, 1999
		YES <input checked="" type="checkbox"/> NO _____
		YES _____ NO _____
		YES _____ NO _____
<i>I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.</i>		
UNITED STATES APPLICATION NUMBER	DATE OF FILING (day, month, year)	STATUS (patented, pending, abandoned)
<i>I hereby appoint customer no. 2352 OSTROLENK, FADER, GERB & SOFFEN, LLP, and the members of the firm, Samuel H. Weiner - Reg. No. 18,510, Jerome M. Bellucci - Reg. No. 18,653, Robert C. Taber - Reg. No. 24,322; Edward A. Mcilman - Reg. No. 24,735; Stanley H. Lieberstein - Reg. No. 22,400; Steven I. Weisblund - Reg. No. 27,409; Max Moskowitz - Reg. No. 30,576; Stephen A. Soffen - Reg. No. 31,063; James A. Fluder - Reg. No. 30,173; William O. Gray, III - Reg. No. 30,944; Louis C. Dujmich - Reg. No. 30,625 and Douglas A. Miru - Reg. No. 31,649, as attorneys with full power of substitution and revocation to prosecute this application, to transact all business in the Patent & Trademark Office connected therewith and to receive all correspondence.</i>		
SEND CORRESPONDENCE TO:	OSTROLENK, FADER, GERB & SOFFEN, LLP 1180 AVENUE OF THE AMERICAS NEW YORK, NEW YORK 10016-8403 CUSTOMER NO. 2352	DIRECT TELEPHONE CALLS TO: (212) 382-0700
<i>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</i>		
FULL NAME OF SOLE OR FIRST INVENTOR Motoishi Tanaka	INVENTOR'S SIGNATURE <i>Motoishi Tanaka</i>	DATE October 2, 2000
RESIDENCE (City and either State or Foreign Country) Kanagawa, Japan	COUNTRY OF CITIZENSHIP Japanese	
POST OFFICE ADDRESS NEC MOBILE COMMUNICATIONS, LTD., 16-8, Shinyokohama 3-chome, Kohoku-ku, Yokohama-shi, Kanagawa, Japan		
FULL NAME OF SECOND JOINT INVENTOR (IF ANY)	INVENTOR'S SIGNATURE	DATE
RESIDENCE (City and either State or Foreign Country)	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRESS		
FULL NAME OF THIRD JOINT INVENTOR (IF ANY)	INVENTOR'S SIGNATURE	DATE
RESIDENCE (City and either State or Foreign Country)	COUNTRY OF CITIZENSHIP	
POST OFFICE ADDRESS		

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